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Notice of Allowability	Application No.	Applicant(s)
	10/049,749 Examiner	SHEPPARD ET AL. Art Unit
		Art Onit
	Nashmiya S. Fayyaz	2856
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS
1. This communication is responsive to <u>amendment of 5/9/05.</u>		
2. The allowed claim(s) is/are 1-13 and 15-18.		
3.   The drawings filed on 04 January 2002 are accepted by the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority un</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>Interview Summary Paper No./Mail Da</li> </ol>	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		
4.   Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9. 🗌 Other	

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jody DeStefanis on July 14, 2005.

The application has been amended as follows:

## Listing of Claims:

Claim 1 (currently amended): A system for making measurements in a wellbore and communicating data representing the measurements to the surface out of the wellbore comprising:

a sensor <u>for making measurements in the wellbore</u>; and a housing comprising a plurality of separable passive data receptors to which data acquired by the sensor is transferred, <del>and which are releasable</del> <u>said data receptors being released</u> in the wellbore, after data transfer, from the housing.

Claim 2 (currently amended): A system according to claim 1, wherein the sensor is electrically connected to an electronic memory within <u>each of said</u> <u>plurality of separable</u> the passive data receptors which stores the acquired data, the electrical connection being broken prior to or during release of <u>each of said</u> <u>plurality of separable</u> the passive data receptors from the housing.

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Claim 3 (currently amended): A system according to claim 1, wherein the sensing apparatus system further comprises an actuable port, openable to release the separable passive data receptors.

Claim 4 (currently amended): A system according to claim 2, wherein each of said plurality of the separable passive data receptors each comprises a rigid casing with a sealable aperture, the casing surrounding each the electronic memory and each the electrical connection passing through the sealable aperture.

Claim 5 (currently amended): A system according to claim 4, wherein the sealable aperture of each rigid casing is formed by an aperture surrounded by a sealing material, with the sealing material being heat treatable within the housing so as to provide after the electrical connection is broken a fluid-tight seal which is continuous with the surface of eachthe rigid casing.

Claim 6 (previously presented): A system according to claim 1, wherein the passive data receptors are spherical.

Claim 7 (previously presented): A system according to claim 6, wherein each passive data receptor comprises two hollow metal hemi-spheres, joined by a plastics seal to form a sphere.

Claim 8 (previously presented): A system according to claim 1, wherein the housing and outer casings of the passive data receptors are formed from plastics material or metal.

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Claim 9 (previously presented): A system according to claim 1, wherein the passive data receptors are configured to be either neutrally buoyant or buoyant, in relation to fluids within the wellbore.

Claim 10 (previously presented): A system according to claim 1, wherein the passive data receptors have a diameter in the range of 1 to 10cm.

Claim 11 (previously presented): A system according to claim 1, wherein the passive data receptors have a diameter in the range 1 to 5cm.

Claim 12 (previously presented): A system according to claim 1, wherein the data is encrypted prior to transfer to the passive data receptors.

Claim 13 (previously presented): A method of acquiring data from downhole, comprising the steps of:

placing downhole a system comprising a sensor and a number of separable passive data receptors;

making measurements using the sensor;

transferring data representing the measurements to the passive data receptors; and

releasing the passive data receptors to carry the data from downhole to the surface.

Claim 14 (canceled).

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Claim 15 (previously presented): A system according to claim 1 wherein the sensor is located within the housing and the sensor is adapted make measurements while the housing descends into the wellbore.

Claim 16 (previously presented): A system according to claim 15 wherein the housing is a robotic logging device.

Claim 17 (previously presented): A system according to claim 16 wherein the robotic logging device is autonomously powered.

Claim 18 (previously presented): A system according to claim 15 wherein the housing is attached to a wireline.

Claim 19 (canceled) A robotic device for communicating measurements taken in a wellbore, comprising:

a body having a propeller and electrical components; and a plurality of batteries that supply electrical energy used to power the propeller.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nashmiya S. Fayyaz whose telephone number is 571-272-2192. The examiner can normally be reached on Mondays and Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron E. Williams can be reached on 571-272-2208.

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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NFayyaz Examiner Art Unit 2856

nf 7/18/05

> JOHN E. CHAPMAN RIMARY EXAMINER